

# GEORGIOS S. AMIRIDIS

Professor

*In Physiopathology of Ruminants' Reproduction*

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## EDUCATION

2006 DipECBHM - Founding Diplomate

2002 DipECAR - Founding Diplomate

1993 - 1996 - PhD, Glasgow University Veterinary School,  
Scotland UK

1980 - 1986 - DVM, Veterinary School, Aristotle University of  
Thessaloniki, Greece.

## PROFESSIONAL ACTIVITIES

1988-1993 private practitioner (Mixed practice)

1996-1998 private bovine practitioner

1998-2000 Adjunct Assistant Prof –Vet. Fac.Univ. of Thessaly

2000-2009 Assistant Prof –Vet Faculty Univ. of Thessaly

2009-2013 Associate Prof - Vet Faculty Univ. of Thessaly

2013 –to date Professor –Vet Faculty Univ. of Thessaly

### **Undergraduate teaching**

Lectures, tutorials and clinical teaching in bovine physiology – physiopathology of reproduction, bovine obstetrics and reproduction, biotechnology of reproduction and reproduction management in cattle at the Veterinary Faculty, University of Thessaly

### **Postgraduate teaching**

Invited lectures in other Universities:

Agricultural University of Athens (2005, to date)

St Istvan University of Budapest, Veterinary School (2009 to 2013).

## Supervision of PhD theses

1. Irene Valasi “*Follicular aspiration in ewe lambs: quality assessment of collected oocytes and evaluation of reproductive performance of the donor*” (examined 2006)
2. I Dimitriadis “*Modification of the in vitro bovine embryo production media using guaiazulene and melatonin*” (examined 2006)
3. Th Papanikolaou “*Effect of plasminogen activators/plasmin system on bovine in vitro embryo production*” (examined 2007)
4. F Krania “*Effects of specific proteolytic enzymes on the developmental competence and the quality of bovine embryos produced in vitro*” (2010 - 2015)
5. T. M. Chouzouris ‘*Effects of ghrelin on bovine reproduction*’ (2014 – to date)

## ADMINISTRATIVE ACTIVITIES

2000 –to date Vet. Faculty, Univ. of Thessaly  
Member of the General assembly,  
Member of various committees

Committee membership in the Greek Drug regulatory authority: Member of the Board for licensing of veterinary feed additives (2002-to date)

Associate Evaluator of veterinary educational establishments: (2002-to date)

Local Organizer of the first COST meeting Action FA0702 maternal interactions with gametes and embryos( Volos – Greece 2008)

Examiner of PhD Theses : P Gouletsou, V Mavrogianni, E Valasi, I Dimitriadis, T Papanikolaou, I Fragkou, D Gougoulis ( Vet Faculty Univ . of Thessaly), V Kotsiampasi (Agric. Univ. of Athens)

Member of editorial board of scientific journal : Journal of the Hellenic Veterinary Medical Society (2010- to date)

Scientific editor (farm animal medicine) : Journal of the Hellenic Veterinary Medical Society (2012- to date)

Guest-editor for special thematic volumes in scientific journals:  
*Animal Reproduction Science* (2011)

Referee in Scientific journals:

*Animal, Animal Reproduction Science, Journal of Dairy Science, Journal of the Hellenic Veterinary Medical Society, Reproductive Biology &*

## **RESEARCH**

### **Research interests**

1. control of in vitro oocyte maturation
2. in vivo and in vitro bovine embryo production
3. bovine reproductive endocrinology
4. pharmacological control of estrous cycle in ruminants

### **Research grants**

1. Improvement of pregnancy rate in dairy cows using intensive serological pregnancy diagnosis (2014 CAMPUS SA, 11500€)
2. Effects of Antioxidants and choline administration during the transition period of dairy cows on fertility parameters (2013, University of Thessaly Research Committee, 13000€)
3. Effects of specific proteolytic enzymes on the developmental capacity of bovine embryos produced in vitro (2010 Heraclites II –Greek Ministry of Education, 45000€)
4. Association between feeding practices and fertility parameters in Karagouniko sheep (2009 Prefecture of Karditsa, 9403€)
5. Study of biosecurity measures in Greek dairy farms (2009 Dairy Industry - OLYMPOS SA 101750 €)
6. New protocols for treating the repeat breeder cow (2008 GEROLYMATOS SA 11000€)
7. Reproductive management of dairy herds (2006 Dairy Industry - OLYMPOS SA, 128458 €)
8. Repeated in vivo oocyte collection in vitro embryo production. Study of the follicular environment in oocyte quality in juvenile and adult ruminants” (2006 PENED European Union, GSRT 98576 €)
9. Effects of melatonin on the follicular environment of indigenous sheep of Greece and Hungary (2005 European Union, GSRT Bilateral cooperation between Greece – Hungary 11740)
10. Ovulation synchronization in Greek dairy sheep. (2004 Intervet Hellas SA 8000 €)
11. Effects of melatonin on the quality of oocyte quality of anestrus indigenous Greek sheep. (2004 CEVA Hellas Ltd, 4500 €)
12. Effects of Cefquinome administration on prevention and treatment of bovine endometritis (2002 Intervet Hellas SA 8000€)
13. Embryo transfer in cows – Training of Vet. Surgeons (2001 European Union, PHARE cross border cooperation Greece – FYROM 7347 €)

Total sum of grants : € 458274.00

## **PRIZES AND DISTINCTIONS**

### Patent

A simple devise for ovarian cyst ablation in the cow. *Greek industrial patent organization 2008.*

Prize

Accolade *Pro Negotio Universitatis*, Veterinary School, St Istvan University Budapest (2012)

**PUBLICATIONS (Full papers)**

1. F Krania, E Dovolou, CA Rekkas, EK Theodosiadou, I Pappas and GS Amiridis (2015) Effects of addition of Tissue –type Palsminogen activator in in virto fertilization medium on bovine embryo development and quality. *Reprod Dom Anim* ( in press)
2. E Dovolou, IE Messinis, E Periquesta, K Dafopoulos, A Gutierrez-Adan, and GS Amiridis(2014) Ghrelin accelerates in vitro maturation of bovine oocytes. *Reprod Dom Anim* 49,665-672
3. E Theodosiadou, GS Amiridis, Th Tsiligianni (2014). Relationship between electrical resistance of cervical mucus and ovarian steroid concentration at the time of artificial insemination in ewes. *Reproductive Biology* 14,234-237
4. Dovolou E, Periquesta E, Messinis IE, Tsiligianni Th, Dafopoulos K, Gutierrez-Adan A, and Amiridis GS. (2014) Daily supplementation with ghrelin improves in vitro bovine blastocysts formation rate and alters gene expression related to embryo quality. *Theriogenology* 81, 565-571
5. Dovolou E, Chadio S, Messinis IE, Rekkas CA, Deligiannis C, Kalogiannis D, Amiridis GS (2013). Human ghrelin decreases pituitary response to GnRH in superovulated ewes. *Theriogenology* 80, 262-8
6. Liaskos C, Spyrou V; Roggenbuck D, Athanasiou L, Orfanidou T, Mavropoulos A, Reinhold D, Rigopoulou El, Amiridis GS, Billinis C. Bogdanos DP (2013). Crohn's disease-specific pancreatic autoantibodies are specifically present in ruminants with paratuberculosis: implications for the pathogenesis of the human disease. *Autoimmunity* 46,6,388-94
7. Valasi I, Theodosiadou E., Fthenakis G.C., Papanikolaou T., Deligiannis C., Kalogiannis D., Chadio S., Amiridis G.S. (2013) Endocrinological profile and follicular development in cyclic ewes subjected to repeated ovum pick-up *Anim Reprod Sci* 138, 180-7

8. I.G. Petridis, V.S. Mavrogianni, I.A. Fragkou, D.A. Gougoulis, A. Tzora, K. Fotou, I. Skoufos, G.S. Amiridis, C. Brozos, G.C. Fthenakis.(2012) Effects of drying-off procedure of ewes' udder in subsequent mammary infection and development of mastitis. *Small Rum Res* 110,128-132
9. Th Tsiligianni, E Dovolou, GS Amiridis (2012) Efficacy of feeding cow colostrums to newborn labs . *Livestock Sci* 194, 305-309
10. V Faigl, N Vass, A Javor, M Kulsar, L Solti, GS Amiridis, S Cseh (2012) Artificial insemination of small ruminants- A review. *Acta Vet Hung* 60(1) 115-129
11. GS Amiridis, S Cseh (2012) Assisted reproductive technologies in the reproductive management of small ruminants. *Anim Reprod Sci* 130(3-4),152-161
12. Cseh S, Faigl V, GS Amiridis (2012) Semen processing and Artificial Insemination in health management of small ruminants. *Anim Reprod Sci* 130(3-4), 187-192
13. I Valasi, S. Chadio, G.C. Fthenakis, GS Amiridis (2012) Management of prepubertal small ruminants: Physiological basis and clinical approach. *Anim Reprod Sci* 130(3-4),126-134
14. Th Tsiligianni, GS Amiridis, E Dovolou, I Menegatos, S Chadio, D Rizos and A Gutierrez-Adan(2011) Association between physical properties of cervical mucus and ovulation rate in superovulated cows *The Canad. J. Vet.Res* 75(4)248-253
15. E. Dovolou, M. Clemente, G.S. Amiridis, I. Messinis, A. Kallitsaris, A. Gutierrez-Adan, D. Rizos (2011) Effects of guaiazulene on in vitro bovine embryo production and on mRNA transcripts related to embryo quality. *Reprod Dom Anim* 46: 862-869
16. Valasi I, GC Fthenakis, NN Prassinos, I Menegatos, V. Grigoropoulou, C Deligiannis, E Vainas and GS Amiridis (2009) The effect of repeated follicular aspiration on the onset of puberty and growth rate of winter –or autumn- born lambs. *Small Rum Res* 84: 35-40.
17. Amiridis GS, Tsiligianni Th Dovolou E, Rekkas C , Vouzaras D Menegatos I. (2009) Combined administration of GnRH, progesterone, and meloxicam is an effective treatment for the repeat-breeder cow *Theriogenology* 72: 542-548.

18. V Faigl, M Keresztes, M Kulcsár, S Nagy, Z Keresztes, GS Amiridis, L Solti, G Huszenicza and S Cseh (2009) Testicular function and semen characteristics of Awassi rams treated with melatonin out of the breeding season. *Acta Vet Hung* 57:531-40
19. GS Amiridis (2009) A comparison of aspiration and hormonal therapy for treatment of ovarian cysts in the cow. *Acta Vet Hung* 57: 521-29.
20. Th Tsiligianni, I Valasi, S Cseh, E Vainas, V Faigl, F Samartzi, T Papanikolaou, E Dovolou and GS Amiridis.(2009) Effects of melatonin treatment on follicular development and oocyte quality in Chios ewes *Acta Vet Hung* 57:331-5
21. T Papanikolaou, GS Amiridis, I Dimitriadis, E Vainas, CA Rekkas (2008) Effect of plasmin, urokinase, tissue-type plasminogen activator or  $\epsilon$ -ACA on bovine in vitro embryo production. *Reprod Fert Dev* 20:320-327.
22. T Tsiligianni, E. Ntovolou, GS Amiridis (2008) Synchronisation of lambing with low doses of dexamethasone in Chios ewes. *Acta Vet Hung* 56: 393-397.
23. Th Tsiligianni, GS Amiridis, E.Vainas (2007) Activity of glycosidases( $\beta$ -N-acetyloglucosaminidase,  $\alpha$ -mannosidase and  $\beta$ - galactosidase) in the uterine luminal fluid of cows after multiple ovulation. *The Canad. J Vet. Res* 71: 300-304.
24. VS Mavrogianni, GS Amiridis, DA Gougoulis, IA Frangkou, GC Fthenakis (2007) Efficacy of difloxacin for the control of postpartum uterine infections of ewes. *J Vet Pharm Therap* 30:583-585.
25. I Valasi, L Leontides, I Menegatos and GS Amiridis (2007) Oestradiol concentration as a predictor of ovarian response in FSH stimulated ewe-lambs. *Anim Reprod Sci* 102: 145-151.
26. I Valasi , L Leontides, Th Papanikolaou and GS Amiridis (2006) Age, FSH dose, and follicular aspiration frequency affect oocyte yield from juvenile donor lambs. *Reprod Dom Anim* 41: 1-8.
27. GS Amiridis, T Tsiligianni, E Vainas (2006) Follicle ablation improves the ovarian response and the number of collected embryos in superovulated cows during the early stages of lactation. *Reprod Dom Anim* 41: 402-407.
28. I Valasi, I Menegatos , Th Papanikolaou, P Goulas, GS Amiridis (2006) Oocyte pick-up in juvenile lambs affects neither onset of puberty nor their future fertility. *Theriogenology* 66: 2144-2151.

29. P Kostoulas, L Leontides, C Billinis, GS Amiridis, M Florou. (2006) The association of sub-clinical paratuberculosis with the fertility in Greek dairy ewes and goats varies with parity. *Prev Vet Med* 74: 226-238.
30. E Vainas, D Papakostaki, V Christodoulou, U Besenfelder, GS Amiridis, B Kuehholzer, F Samartzi, G Brem (2006) Exploitation of embryos collected from Maedi –Visna seropositive ewes during eradication programs. *Small Rumin Res* 62:129-134.
31. GS Amiridis, I Valasi, I Menegatos, C Rekkas, P Goulas, Th. Papanikolaou, C Deligiannis (2005) Luteal stage dependence of pituitary response to GnRH in cyclic dairy ewes subjected to synchronization of ovulation. *Reprod Fertil Devel* 17:769-774.
32. C Billinis, L Leontides, GS Amiridis, V Spyrou, P Kostoulas, M Sofia (2005) Prevalence of BVDV infection in greek dairy farms. *Prev Vet Med* 72: 75-79.
33. C Deligiannis, I Valasi, CA Rekkas, P Goulas, E Theodosiadou, T Lainas, and GS Amiridis (2005) Synchronization of ovulation and fixed time intrauterine insemination in ewes *Reprod Dom Anim* 40: 6-10.
34. PG Gouletsou, GC Fthenakis, P J Cripps, N Papaioannou, T Lainas, D Psalla and GS Amiridis (2004) Experimentally induced orchitis associated with *Arcanobacterium pyogenes*: clinical, ultrasonographic, seminological and pathological features • *Theriogenology* 62: 1307-1328.
35. GS Amiridis, C Billinis, Th Papanikolaou, V Psychas, D Kanteres (2004) Postparturient outbreak of fatal bovine viral diarrhoea in recently imported pregnant heifers in a dairy farm in Central Greece. *Vet Record* 154:698-9.
36. GS Amiridis, GC Fthenakis, J Dafopoulos, T Papanikolaou, VS Mavrogianni (2003) Use of cefquinome for prevention and treatment of bovine endometritis. *J Vet Pharm Therap* 26:387-90.
37. PG Gouletsou, GS Amiridis, PJ Cripps, T Lainas, K. Deligiannis, P. Saratsis, GC Fthenakis. Ultrasonographic appearance of clinically healthy testicles and epididymides of rams. *Theriogenology* 2003: 1959-1972
38. Tzora A, LS Leontides GS Amiridis G Manos and GC Fthenakis (2002) Bacteriological and epidemiological findings during examination of

- uterine content of ewes with retention of fetal membranes. *Theriogenology* 57: 1809-1817.
39. GS Amiridis, CA Rekkas, GC Fthenakis, E Vainas, A Lymberopoulos, V Christodoulou, S Belibasaki.(2002) Progesterone concentration as an indicator of ovarian response to superovulation in Chios ewes. *Theriogenology* 57 :1143-1150.
  40. GS Amiridis, L Leontides E Tassos, P Kostoulas GS Fthenakis (2001) Flunixin meglumine accelerates uterine involution and shortens the calving to first estrous interval in cows suffering puerperal metritis. ( *J. Vet. Pharm. And Therapeutics* 24:365-367.
  41. A Lymberopoulos, GS Amiridis B Kuehholzer, U Besenfelder, V Christodoulou E Vainas and G Brem (2001) Fertilization and embryo recovery rates in superovulated Chios ewes following laparoscopic intrauterine insemination *Theriogenology* 55: 1855-62.
  42. Fthenakis GS, Leontides L, Amiridis GS, Saratsis P (2000) Incidence risk and clinical features of retention of foetal membranes in ewes in 28 flocks in Southern Greece . *Prev Vet Med* 43: 85-90.
  43. Leontides L, Fthenakis GC, Amiridis GS, Saratsis P (2000) A matched case control study of factors associated with retention of fetal membranes in dairy ewes. *Prev Vet Med* 44:113-120.
  44. Amiridis GS, Robertson L, Jeffcoate IA, Belibasaki B, Boyd JS, O'Shaughnessy PJ (2000) Formation of a secondary corpus luteum after ultrasound guided follicular aspiration in cows. *Acta Vet. Hungarica* 48, 193 - 198
  45. Amiridis GS, Belibasaki S, Leontidis L, Lymberopoulos A, and Vainas E (2000) Reproductive efficiency of three estrus synchronisation schemes comprising fixed time insemination in dairy cows. *J Vet Med* 47:271 -276.
  46. Belibasaki S, Amiridis GS, Lymberopoulos A, Varsakeli S, Kouskoura T (2000) Ram seminal plasma and fertility :results from an ongoing study. *Acta Vet Hung* 48: 335 – 341.
  47. GS Amiridis, L Robertson, S Reid, JS Boyd, PJ O'Shaughnessy and IA Jeffcoate (1999) Plasma estradiol, FSH and LH concentration after dominant follicle aspiration in the cow. *Theriogenology* 52: 995-1003.
  48. Kouretas D, Laliotis V, Taitzoglou I, Georgelis A, Tsantariotou M, Mougliow V, Amiridis GS, Antonoglou O (1999) Sex hormone binding globulin from



- sheep serum:purification and effects of pregnancy and treatment with exogenous estradiol. *Comp Bioch Physiol Part C* 123: 233- 239
49. Makondo K, GS Amiridis, IA Jeffcoate, PJ O'Shaughnessy, JS Boyd, C Paterson, L Robertson (1997) Use of the polymerase chain reaction to sex the bovine fetus using cells recovered by ultrasound-guided fetal fluid aspiration. *Anim Reprod Sci.* 49 : 125 - 133.
50. ΓΣ Αμοιρίδης, Α Λυμπερόπουλος (1998) Εφαρμογή της υπερηχογραφίας στην αναπαραγωγή των αγελάδων *Δελτίον Ελλ. Κτην Εταιρείας* 49:272-280.
51. Γ.Σ.Αμοιρίδης, Μ. Salaheddine, Ι.Α. Jeffcoate, Ε. Βαϊνάς, και L. Robertson (1998) In vivo διακοπική αναρρόφηση ωαρίων αγελάδας με υπερηχογραφία *Δελτίον Ελλ. Κτην. Εταιρείας* 49:195-203.
52. Βαϊνάς U. Besenfelder, Β. Χριστοδούλου, Β. Κuehholzer, Γ.Σ. Αμοιρίδης, Σ. Μπελιμπασάκη, G. Brem(1998) Παραγωγή διαγονιδιακών προβάτων: Μικροέγχυση της γονιδιακής κατασκευής P77 (ras1-καζείνη - χυμοζίνη) των βοοειδών σε ζυγωτά - έμβρυα προβάτων φυλής Χίου. *Δελτίον Ελλ. Κτην. Εταιρείας* 50:138 –143.
53. ΓΣ Αμοιρίδης, Β. Κuehholzer, U. Besenfelder, Α. Λυμπερόπουλος και Ε. Βαϊνάς (1998) Λαπαροσκοπική συλλογή και μεταφορά εμβρύων προβάτων της φυλής Χίου. *Δελτίον Ελλ. Κτην. Εταιρείας* 50: 244-249.
54. Α Λυμπερόπουλος, Β. Κuehholzer, Γ.Σ. Αμοιρίδης, Β. Χριστοδούλου και Ε. Βαϊνάς (1998) Λαπαροσκοπική ενδομητρίαία σπερματέγχυση σε προβατίνες φυλής Χίου μετά από πρόκληση πολλαπλής ωοθυλακιορρηξίας. *Δελτίον Ελλ. Κτην. Εταιρείας* 50: 321 –325
55. Α Anastasiadis, GS Amiridis, AG Lymberopoulos, Α Koronaki, Ε Vainas (2001) Superovulation of prepubertal and young pubertal gilts with PMSG. *JHVMS* 52,325-29.
56. Α. Πούρλης, ΓΣ Αμοιρίδης, Ε. Βαϊνάς (2004) Μελέτη δύο περιπτώσεων ακάρδιων αμόρφων τεράτων σε βοοειδή , *ΠΕΚΕ*, 55: 120-124
57. Ε. Donolou, Th Tsiligianni, D Vouzaras, GS Amiridis (2011) Prevalence of *Coxiella burnetii* antibodies in bulk milk and blood serum and associations with reproductive indices in cow dairy herds of Central and Northern Greece *J Hel Vet Med Soc* 62: 314-319
58. Petridis I.G. Mavrogianni V.S., Gougoulis D.A, Amiridis G.S., Brozos C., Fthenakis G.C. (2012). Effects of drying-off procedure of ewes' udder, with

intramammary antibiotic administration, in subsequent mammary infection and development of mastitis. *J Hel Vet Med Soc* 63: 273-282